

Supplementary Materials

Systematic Analysis of Threats to Sea Turtles in Mexico: Trends, Knowledge Gaps, and Implications for Conservation

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S1. SCOPUS™ search strategy.

We selected publications on threats affecting sea turtles by searching the main fields (title, abstract, and keywords) of the Scopus™ database. The search string combined multiple keywords related to sea turtles, including scientific names, genus and species, as well as specific threats. The search string used is presented below:

((TITLE-ABS-KEY ("lepidochelys" OR "dermochelys" OR "chelonia" OR "eretmochelys" OR "caretta" OR "marine turtle*" OR "sea turtle*") AND TITLE-ABS-KEY ("anthropogenic impact*" OR "human threat*" OR "environmental impact*" OR "natural impact*" OR "human effect*" OR "anthropogenic effect*" OR "human disturbance effects" OR "marine traffic" OR "incidental catch" OR "direct harvesting" OR "ocean-physics alteration" OR "climate change" OR "artificial lighting" OR "debris" OR "plastic" OR "noise" OR "pathogens" OR fishing OR fisheries OR pollution OR threat* OR impact* OR parasites OR disease* OR dredging OR predator* OR spills OR "egg consumption" OR enso OR "hurricane effect*" OR "storm impacts" OR tourism OR "boat strike" OR entanglement OR "heavy metal" OR "ghost nest*" OR "natural mortality" OR trade)) AND PUBYEAR > 1959) AND (LIMIT-TO (AFFILCOUNTRY , "mexico")) AND (LIMIT-TO (DOCTYPE , "ar") OR LIMIT-TO (DOCTYPE , "re") OR LIMIT-TO (DOCTYPE , "ch") OR LIMIT-TO (DOCTYPE , "bk"))

S2. List of identified studies on threats affecting sea turtles.

A total of 88 scientific articles were included in this review. The complete list is presented below:

3. Liceaga-Correa, M.D.L.A.; Uribe-Martínez, A.; Cuevas, E. Ecological vulnerability of adult female marine turtles as indicators of opportunities for regional socioecosystem management in the southern Gulf of Mexico. *Sustainability* **2022**, *14*, 184. <https://doi.org/10.3390/su14010184>.
19. Aguilar-González, M.E., Luna-González, A., Aguirre, A., Zavala-Norzagaray, A.A., Mundo-Ocampo, M., González-Ocampo, H.A. Perceptions of fishers to sea turtle bycatch, illegal capture and consumption in the San Ignacio-Navachiste-Macapule lagoon complex, Gulf of California, Mexico. *Integrative Zoology*. **2014**, *9*, 70-84, doi.org/10.1111/1749-4877.12024
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62. Gardner, S.C., Pier, M.D., Wesselman R., Juárez J.A. Organochlorine contaminants in sea turtles from the Eastern Pacific. *Marine Pollution Bulletin*. **2003**, *46*, 1082-1089, [doi.org/10.1016/S0025-326X\(03\)00254-6](https://doi.org/10.1016/S0025-326X(03)00254-6)
63. Seminoff, J.A., Jones, T.T., Resendiz, A., Nichols, W.J., Chaloupka, M.Y. Monitoring green turtles (*Chelonia mydas*) at a coastal foraging area in Baja California, Mexico: Multiple indices to describe population status. *Journal of the Marine Biological Association of the United Kingdom*. **2003**, *83*, 1355-1362, [doi.10.1017/S0025315403008816](https://doi.org/10.1017/S0025315403008816)
64. Cordero-Tapia, A., Gardner, S.C., Arellano-Blanco, J., Inohuye-Rivera, R.B. Learedius learedi infection in black turtles (*Chelonia mydas agassizii*), Baja California Sur, Mexico. *The Journal of parasitology*. **2004**, *90*, 645-647, doi.org/10.1645/GE-165R
65. Inohuye-Rivera, R.B., Cordero-Tapia, A., Arellano-Blanco, J., Gardner, S.C. *Learedius learedi* (Trematoda: Spirorchidae), in Black Turtle (*Chelonia mydas agassizii*) Hearts from Magdalena Bay, Baja California Sur, Mexico. *Comparative Parasitology*. **2004**, *71*, 37-41, doi.org/10.1654/4113

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67. Koch, V., Nichols, W.J., Peckham, H., De La Toba, V. Estimates of sea turtle mortality from poaching and bycatch in Bahía Magdalena, Baja California Sur, Mexico. *Biological Conservation*. **2006**, *128*, 327-334, doi.org/10.1016/j.biocon.2005.09.038
68. Frías-Espericueta, M.G., Osuna-López, J.I., Ruiz-Telles, A., Quintero-Alvarez, J.M., López-López, G., Izaguirre-Fierro, G., Voltolina, D. Heavy metals in the tissues of the sea turtle *Lepidochelys olivacea* from a nesting site of the northwest coast of Mexico. *Bulletin of Environmental Contamination and Toxicology*. **2006**, *77*, 179-85, doi.org/10.1007/s00128-006-1048-1
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